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Title

How to configure wire mode with Link Aggregation(inline traffic monitor over LAG)

Resolution

Article Applies To:

Firmware/Software Version: 6.2.X.X and above

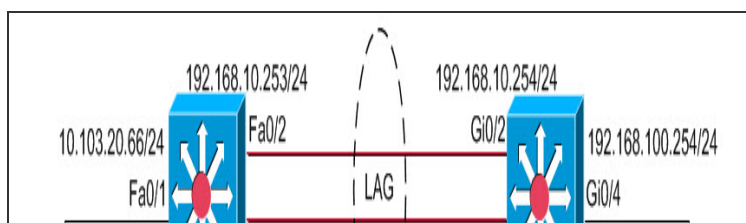
Services: Interface (Wire Mode)

Feature/Application:

A Dell SonicWall security appliance can be connected inline over LAG (Link Aggregation group) to inspect the bypass traffic and allowing packets sent on the group to be bridged across to the destination transparently as well.

Overview/Scenario:

The LAG connection has been established successfully with LACP enabled between two CISCO switches. A dell SonicWall appliance will be deployed inline to inspect the traffic over LAG and also bypassing all the traffic as well as LACP packet between the CISCO and CISCO switch.



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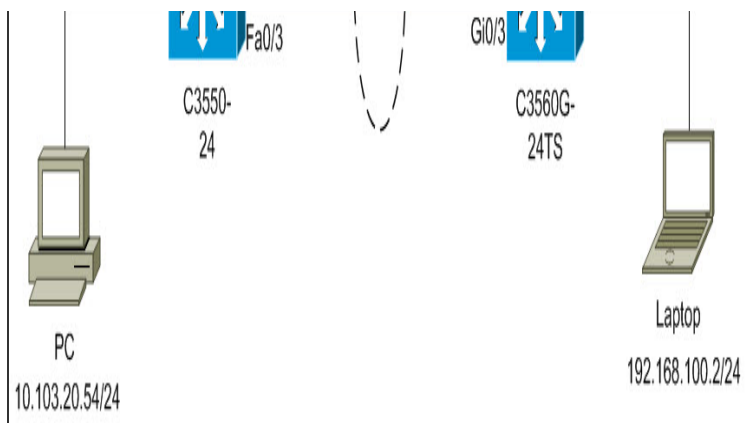


Fig.1 LAG without SonicWall inline

Group	Port-channel	Protocol	Ports	
1	Po1(SU)	LACP	Fa0/2(P)	Fa0/3(P)

Fig.2 C3550-24 LAG Summary

Group	Port-channel	Protocol	Ports	
1	Po1(SU)	LACP	Gi0/2(P)	Gi0/3(P)

Fig.3 C3560G-24TS LAG Summary

```
C:\>tracert 192.168.100.2

Tracing route to WN7X64-6QQ3GV1 [192.168.100.2]
over a maximum of 30 hops:

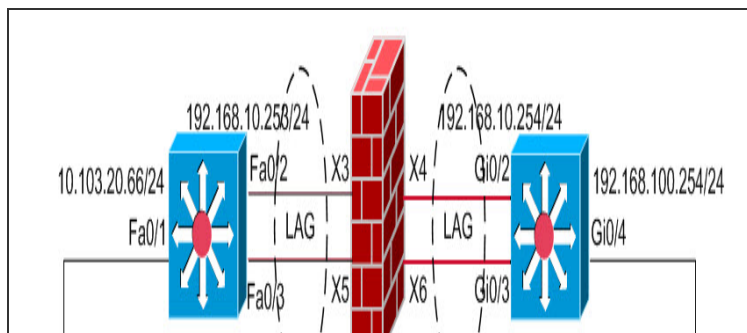
  1  <1 ms  <1 ms  <1 ms  10.103.20.66
  2   2 ms   1 ms   3 ms  192.168.10.254
  3  <1 ms  <1 ms  <1 ms  WN7X64-6QQ3GV1 [192.168.100.2]

Trace complete.
```

Fig.4 Ping from PC 10.103.20.54 to Laptop

Procedure:

Following (Fig.5) is an example about how to deploy the SonicWall inline over LAG with 2 members.



Series
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Viewing 1 of 4

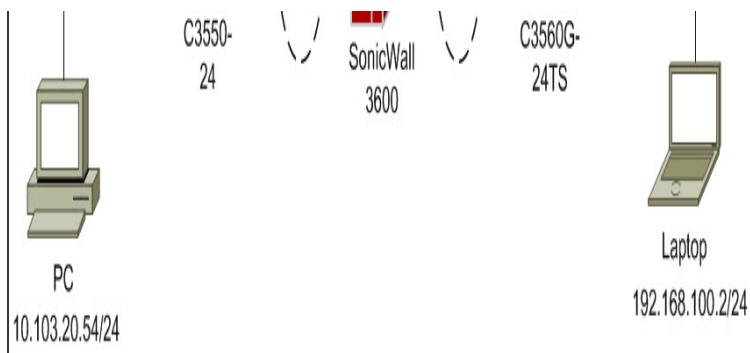


Fig.5 LAG with SonicWall inline

Step 1: Connect C3550-Fa0/2 to SonicWall-X3, C3550-Fa0/3 to SonicWall-X5, C3560G-Gi0/2 to SonicWall-X4 and C3560G-Gi0/3 to SonicWall-X6.

Step 2: Navigate to **Network > Interfaces** page. Click on the **Configure** icon for the interface X3 and the **Edit Interface** window will be displayed.

Options in the General Tab

- From the **Zone** menu, select the zone you want.
- From the **Mode/IP Assignment** menu, select Wire Mode(2-Port Wire).
- From the **Wire Mode Type** menu, select **Secure (Active DPI of Inline Traffic)**.
- From the **Paired Interface** menu, select the interface you want.
- From the **Paired Interface Zone** menu, select the zone you want.
- (Optional) Select the **Disable Stateful Inspection** option if you want it.
- (Optional) Select the **Enable Link State Propagation** option if you want it.

The screenshot shows the SonicWall Network Security Appliance web interface. The 'General' tab is selected under the 'Interface 'X3' Settings' section. The settings are as follows:

- Zone: LAN
- Mode / IP Assignment: Wire Mode (2-Port Wire)
- Wire Mode Type: Secure (Active DPI of Inline Traffic)
- Paired Interface: X4
- Paired Interface Zone: LAN
- ☒ Disable Stateful Inspection
- ☐ Enable Link State Propagation

Fig.6 General Tab

Options in the Advanced Tab

- From the **Redundant/Aggregates Ports** menu, select **Link Aggregation**.
- For the **Aggregate Port**, select the port that you want.
- Fort the **Paired Interface Aggregate Port**, select the port that you want.
- Click OK

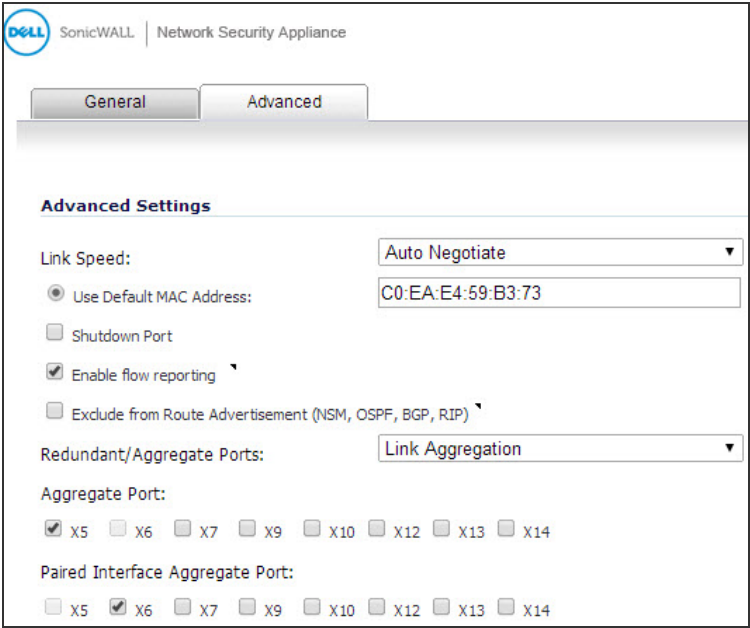


Fig.7 Advanced Tab

Step 3: The configuration is displayed on the Network > Interfaces page as following.

X3	LAN	N/A	N/A	N/A	100 Mbps Full Duplex	Wire Mode Secure - X4
X4	LAN	N/A	N/A	N/A	1 Gbps Full Duplex	Wire Mode Secure - X3
X5	Aggregate Port	N/A	N/A	N/A	100 Mbps Full Duplex	Aggregate Port for X3
X6	Aggregate Port	N/A	N/A	N/A	1 Gbps Full Duplex	Aggregate Port for X4

Fig.8 Configuration for Wire Mode with LAG

Step 4: Testing LAG channel with SonicWall inline by ping the laptop from PC (10.103.20.54).

```
C:\>ping 192.168.100.2
```

```
Pinging 192.168.100.2 with 32 bytes of data:
Reply from 192.168.100.2: bytes=32 time<1ms TTL=126
Reply from 192.168.100.2: bytes=32 time<1ms TTL=126
Reply from 192.168.100.2: bytes=32 time<1ms TTL=126
Reply from 192.168.100.2: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.100.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Fig.9 Testing the channel

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